

10 - 12 December 2024

## UniBw AI Retreat 2024

Building an UniBw AI network



hosted in cooperation with

**George C. Marshall European  
 Center for Security Studies (GCMC)**



The retreat aims to provide doctoral students in machine learning and artificial intelligence with a platform for technical and applied-level exchange and networking.

Public sector researchers have the possibility to engage with AI PhD students to exchange insights on methodologies and real-world applications.

### Registration

#### PhD Students:

Please apply with an abstract and (optionally) with a poster of your PhD thesis or a current research project (published or unpublished).

#### Senior Researchers/Public Sector participants:

Please indicate your research interests during registration.

Please register at <https://go.unibw.de/ubair2024>

A passport or EU ID card is required for admission. After registering on the above page, you will be asked to enter this and other data on the Marshall Center registration page.

The retreat is free of charge. Lunch, dinner and the excursion must be paid for by the participants themselves. Please take care of your own travel expenses, transport and accommodation.

### Hosts and Sponsors

Machine Learning Interest Group (MLIG)



E=Entrance, D=Dining Facility (DFAC)

### Event Location

George C. Marshall European Center for Security Studies  
 Gernackerstraße 2  
 82467 Garmisch-Partenkirchen

### Contact

Laurie Shealy  
 Conference and Event Planner  
 George C. Marshall Center  
 +49 08821 750 2439  
[Laurie.shealy@marshallcenter.org](mailto:Laurie.shealy@marshallcenter.org)

Philipp J. Rösch  
 Event Organizer  
 University of the Bundeswehr Munich  
[philipp.rosch@unibw.de](mailto:philipp.rosch@unibw.de)

## Tuesday, 10 December 2024

- 0800 – 0830 Arrival at GCMC
- 0830 – 0930 Registration / **Coffee**
- 0930 – 0945 Welcoming Remarks

**Gen. Barre Sequin**, Director, George C. Marshall Center  
**Dr. Bernard Finel**, Dean, College of International Security Studies (CISS), George C. Marshall Center  
**Philipp J. Rösch**, MLIG, University of the Bundeswehr Munich

- 0945 – 1000 Round of Introductions

1000 – 1130 Talk 1: Setting the Policy Scene: AI and Security.  
 Security-related challenges and opportunities arising from the rapid development of AI technology

**Dr. Sae Schatz**, Director, Partnership for Peace Consortium of Defense Academies and Security Studies Institutes

**Professor Dr. Scott Handler**, Professor of Cyber Studies, George C. Marshall Center

Moderation: **Professor Dr. May-Britt U. Stumbaum**, Professor of Security Studies and Strategic Competition, George C. Marshall Center

- 1130 – 1300 **Lunch @ DFAC (optional)**

- 1300 – 1345 Poster Session 1 (Security-related)

- 1345 – 1430 Poster Session 2

- 1430 – 1500 **Coffee Break**

- 1500 – 1545 Poster Session 3

1545 – 1630 Poster Post-Discussion (particularly security related together with GCMC Faculty)

- 1630 - 1800 Ice-Breaker (hosted by GCMC)

- 1800 **Dinner @ DFAC (optional)**

## Wednesday, 11 December 2024

- 0745 – 0800 **Coffee** / Morning Intro
- 0800 – 0930 PyTorch Tutorial, Part 1

**Dr. Thomas Viehmann**, Principal Research Engineer, Lightning AI and former PyTorch Core Developer

Optimization: training runs and PyTorch models itself  
 Transformers, training strategies, quantization  
 Extending PyTorch and export, PyTorch on device

- 0930 – 1000 **Coffee Break**

- 1000 – 1130 PyTorch Tutorial, Part 2

- 1130 – 1300 **Lunch @ DFAC (optional)**

1300 – 1430 Talk 2: Far-Right Extremism and Terrorism  
 tba

**Claudia Wallner**, Research Fellow, Terrorism and Conflict research group, and Co-Leader, Far-Right Extremism and Terrorism (FRET) research program, Royal United Services Institute (RUSI)

Moderation: **LTC Arne Lossmann**, Deputy Director, Program for Cybersecurity Studies, George C. Marshall Center

- 1500 – 1800 Optional Excursion to Christkindlmarkt

- 1800 **Dinner @ DFAC (optional)**

## Thursday, 12 December 2024

- 0815 – 0830 **Coffee** / Morning Intro

- 0830 – 1000 Open Science Course, Part 1

**Dr. Carolina Natel de Moura**, Digital Research Academy, Postdoctoral Researcher, Institute of Meteorology and Climate Research, Karlsruhe Institute of Technology

Fears and difficulties of working open  
 Organizing files and folders  
 Reproducible research practices  
 Publication of research output

- 1000 – 1030 **Coffee Break**

- 1030 – 1130 Open Science Course, Part 2

1130 – 1245 Concluding Panel Discussion: "Geopolitical Challenges and Strategic Competition: Artificial Intelligence and Global Security".

Amidst Strategic Competition and rising geopolitical challenges, the focus will be on the US, EU and like-minded as well as on China and Russia, two nations that are important both as innovative pioneers and geopolitical players. Experts from the fields of defense, technology and politics discuss the impact of AI on global security strategies, cyber warfare and international stability: How does AI influence the balance of power between nations? What risks does the military use of AI entail? Can international cooperation mitigate the security threats posed by AI? What are the benefits of AI for Western forces? What role do research institutions play in AI for military applications worldwide?

**Dr. Sae Schatz**, Director, Partnership for Peace Consortium of Defense Academies and Security Studies Institutes

**Professor Dr. Scott Handler**, Professor of Cyber Studies, George C. Marshall Center

**Professor Dr. Oliver Rose**, Professor of Modelling and Simulation, University of the Bundeswehr Munich

**Professor Dr. Gary S. Schaal**, Professor of Political Theory, Defense AI Observatory (DAIO), Helmut Schmidt University

Moderation: **Professor Dr. May-Britt U. Stumbaum**, Professor of Security Studies and Strategic Competition, George C. Marshall Center

- 1245 – 1300 Farewell remarks  
 Leadership, George C. Marshall Center (tbd)

- 1300 **Lunch @ DFAC (optional), individual departures**